

**Utah Transportation Commission Meeting
Agenda Item Fact Sheet**

Commission Meeting Date: February 10, 2012

Agenda Item #: 6

Agenda Item Title: I-15 Core Update

Presented by: Todd Jensen

Background:

This will be an update on the I-15 Core project.

Exhibits/Handouts:

Audio/Visual: PowerPoint Presentation

Commission Action Requested:

☒ For Information/Review Only
☐ For Commission Approval

Motion Needed for Approval:



UTAH COUNTY
C15RE
CORRIDOR EXPANSION

Project Update

Todd Jensen | Project Director

2/10/2012



A UDOT Project

Progress Update

- Construction is 70% complete
- 95% of traffic is on new concrete
- Placed 2 million square yards of concrete



Progress Update

- On schedule for December 2012 completion
- Fastest billion-dollar highway project in U.S. history



American Fork 500 East

July 2010



American Fork 500 East

October 2010



American Fork 500 East

May 2011



American Fork 500 East

January 2012



Provo
S-Curves



June 2010

Provo
S-Curves



March
2011

Provo
S-Curves



July 2011

Provo
S-Curves

September
2011



Provo
S-Curves



January
2011

Provo Center Street

May 2010



Provo Center Street

March 2011



Provo Center Street

January 2012



I-15 and U.S. 6

May 2010



I-15 and U.S. 6

March 2011



I-15 and U.S. 6

July 2011



I-15 and
U.S. 6



November
2011

January – March Schedule

- Lehi Main Street realigned as SPUI (complete)
- Bridge construction in Orem and Provo



April – June Schedule

- **Milestone June 2012:** Lehi to Pleasant Grove completion
- Orem interchange closures continue
- University Pkwy CFI and pedestrian tunnels to open



July – September Schedule

- I-15 undercrossing at Provo 500 West to open
- Completion of ramps at U.S. 6 and Spanish Fork Main Street
- Orem interchange work continues

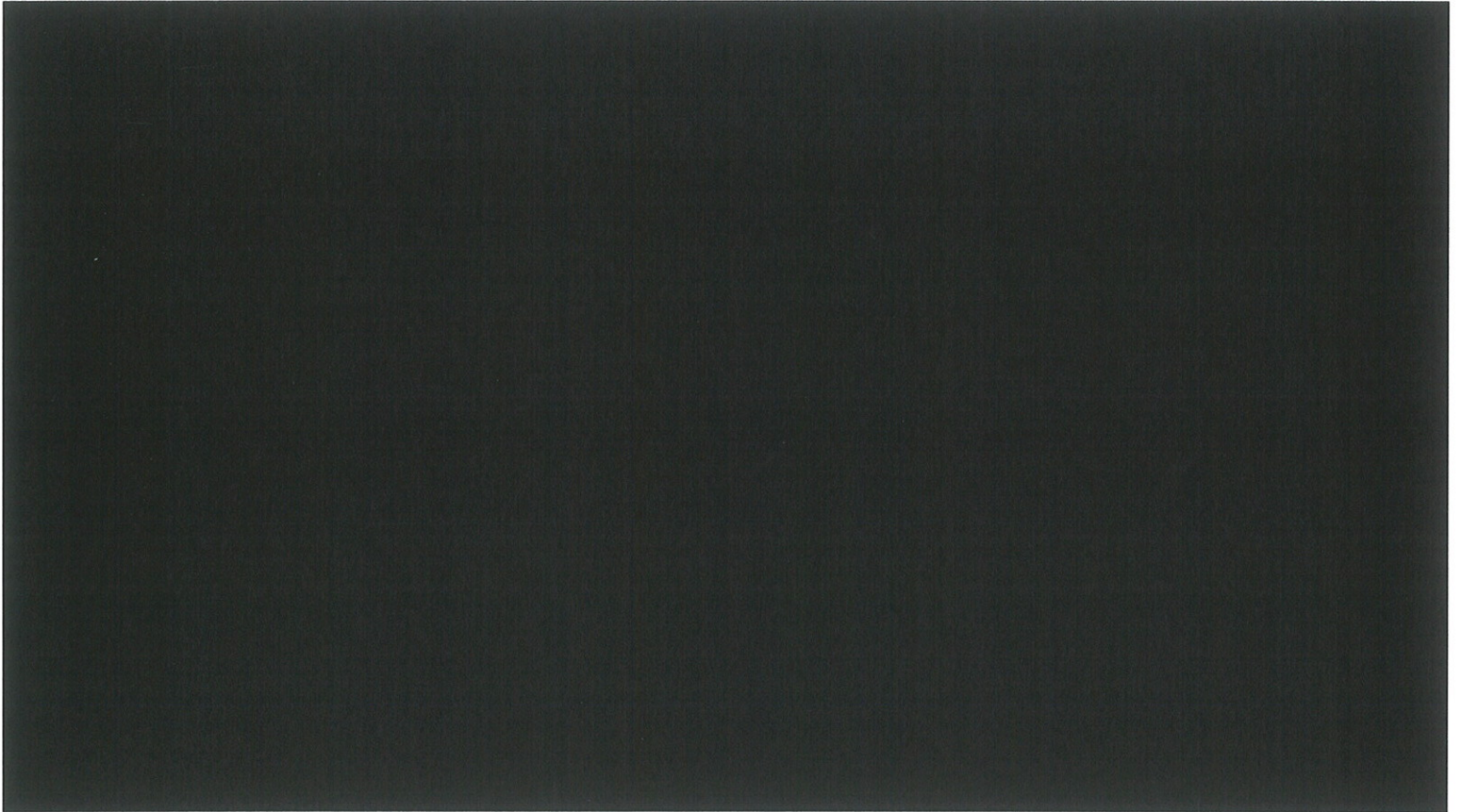


October – December Schedule

- Final lane configurations in place
- Finishing work, landscaping, etc.
- Scheduled project completion Dec. 2012



U.S. 6 and Spanish Fork Main Street



For More Information

Weekly e-mail updates: [sign up at udot.utah.gov/i15core](http://udot.utah.gov/i15core)

Website: udot.utah.gov/i15core

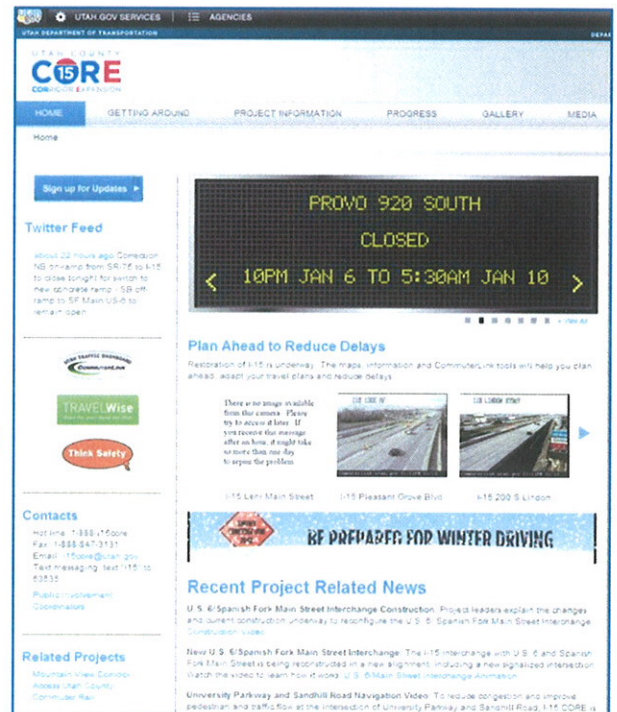
Hotline: **1-888-i15core**
(1-888-415-2673)

E-mail: i15core@utah.gov

Facebook: facebook.com/i15core

Twitter: twitter.com/i15core

Text messaging:
text "i15" to 53535





The Utah County I-15 Corridor Expansion (I-15 CORE) has entered its final year of construction. With a total construction schedule of only 35 months to complete 24 miles of freeway, 10 interchanges and 63 bridges, I-15 CORE has the fastest construction schedule for a billion-dollar public highway project in U.S. history.

CONSTRUCTION PROGRESS

- 95% of traffic on new concrete pavement
- 2 million square yards of concrete placed
- 21 new or reconstructed bridges opened to traffic
- 6.5 million tons of fill placed
- 1.2 million square feet of retaining wall constructed

PROJECT STATUS

- 70% complete
- On budget
- On schedule for December 2012 completion

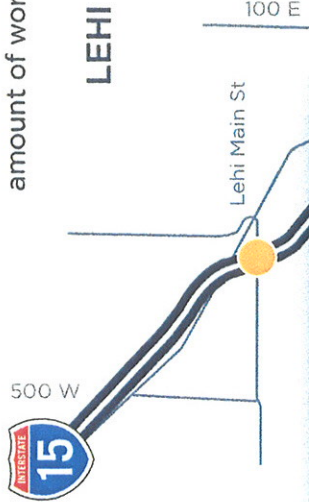
CONSTRUCTION TIMELINE

Project completion in less than three years



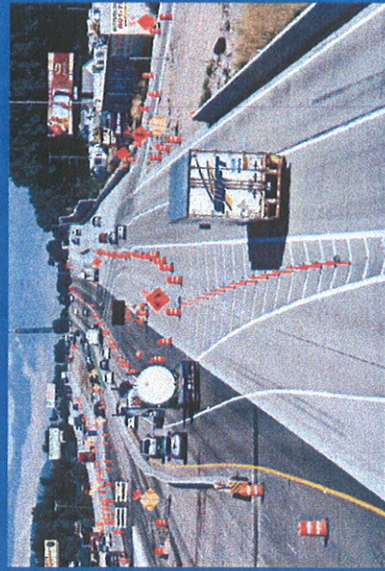
CONSTRUCTION PROGRESS

I-15 CORE reached some important milestones in 2011, but crews still need to complete a significant amount of work in 2012, the final year of construction.



500 EAST DDI >

After a 40-day closure, 500 East reopened as the third Diverging Diamond Interchange (DDI) in Utah County. The interchange will be completed by June 2012.



SEGMENT COMPLETION >

Thanks to aggressive scheduling tactics like lane splits, the portion of the project from Lehi to Pleasant Grove is scheduled to be completed in June.

OREM



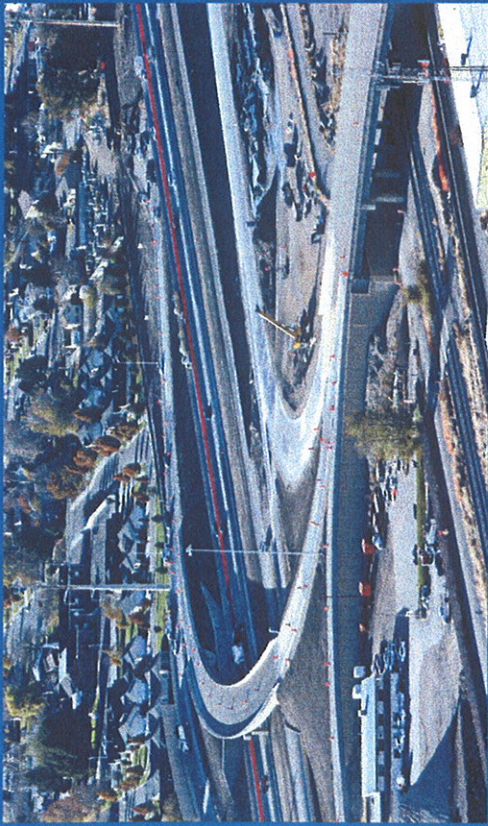
BRIDGE MOVES >

Four bridges were moved into place by Self Propelled Modular Transporters (SPMT) in 2011. The Sam White bridge move in March made history as the longest two-span bridge moved by SPMT in the western hemisphere (pictured).



UNIVERSITY PARKWAY >

The new continuous flow intersection at University Parkway and Sandhill Road is under construction, including a pedestrian tunnel (pictured) for access



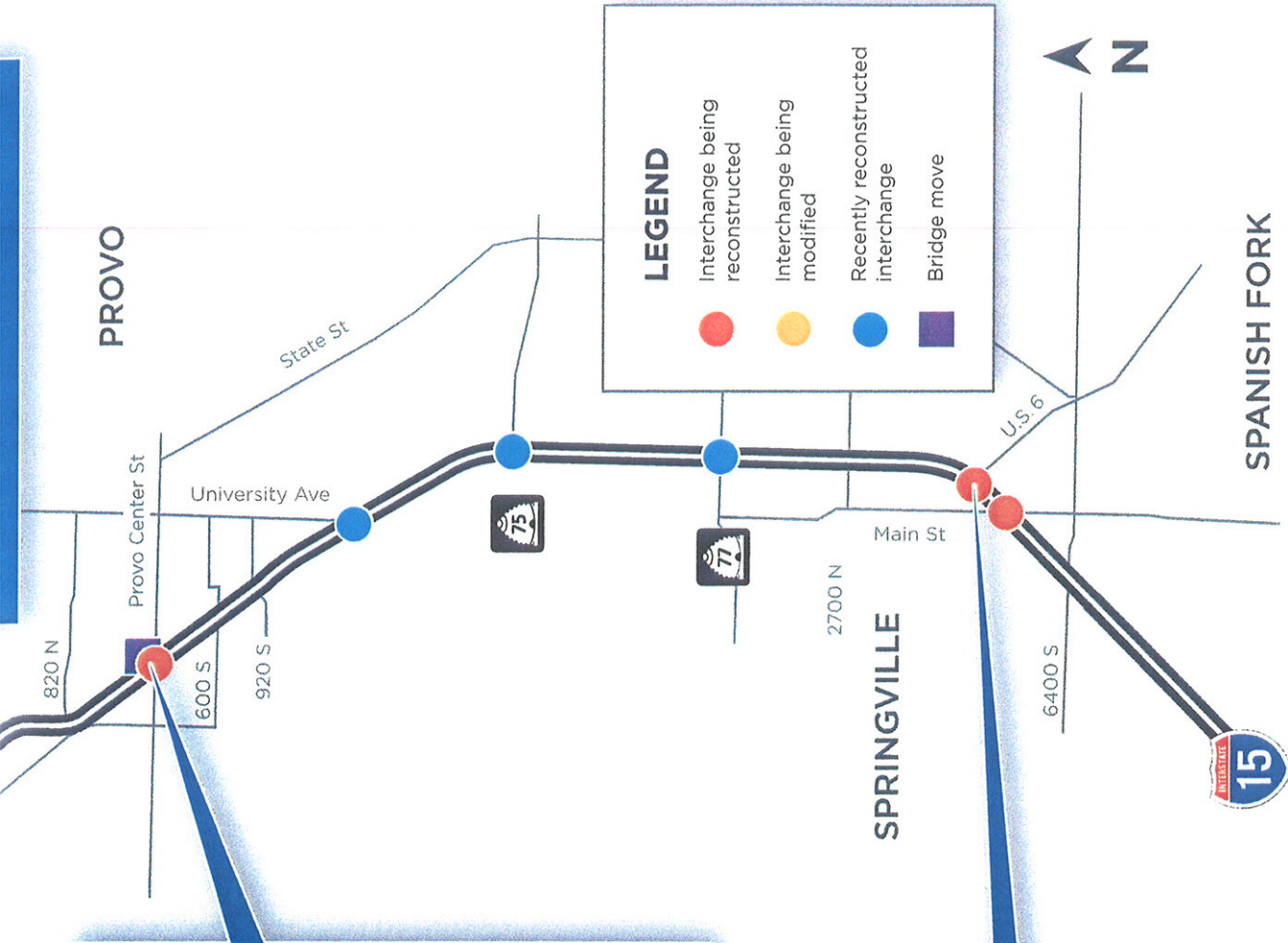
PROVO CENTER STREET >

After a 90-day closure, the Provo Center Street interchange reopened, including a new bridge into downtown Provo (pictured). Additional closures will be necessary in 2012 to complete the interchange.



U.S. HIGHWAY 6 >

Traffic is now using a new southbound off-ramp that combines the exits to Spanish Fork Main Street and U.S. 6. A new signalized intersection eliminates the old loop ramp and allows safe traffic movements between I-15 and U.S. 6.



2012 CONSTRUCTION SCHEDULE

With construction in the northern portion of the project wrapping up mid-summer, 2012 construction will focus heavily on Orem, Provo and Spanish Fork.

<ul style="list-style-type: none"> • Lehi Main Street interchange open in its final configuration • Complete remaining portions of I-15 bridges in Provo 	<ul style="list-style-type: none"> • University Pkwy. Continuous Flow Intersection to open • Interchange reconstructions in Orem require closures of up to 60 days each • Scheduled completion of the Lehi to Pleasant Grove area 	<ul style="list-style-type: none"> • New I-15 undercrossing at 500 West in Provo to open • Completion of ramps at U.S. 6 and Spanish Fork Main Street • Orem interchange reconstruction and closures continue 	<ul style="list-style-type: none"> • Traffic shifts to permanent configurations • I-15 CORE project completion
JANUARY - MARCH	APRIL - JUNE	JULY - SEPTEMBER	OCTOBER - DECEMBER

Note: All dates subject to change.

KEEPING THE COMMUNITY INFORMED

There is still a lot of construction work to be done this year, which may continue to inconvenience those working, living or driving through Utah County. The best thing drivers can do is stay up-to-date on planned work by using one or more of the update tools listed below.



I-15 CORE Hotline
1-888-i15-core (888-415-2673)



4,200 individuals receive weekly email updates
i15core@utah.gov



970 individuals receive weekly text message updates
text "i15" to 53535



1,640 followers on Twitter
[Twitter.com/i15core](https://twitter.com/i15core)



1,170 followers on Facebook
[Facebook.com/i15core](https://facebook.com/i15core)



260,000 visits to the I-15 CORE website
udot.utah.gov/i15core

I-15 CORE QUICK FACTS

- 24 miles of freeway reconstructed
- Two new lanes in both directions from Lehi Main Street to Spanish Fork
- Express Lane extended from University Parkway in Orem to Spanish Fork
- 10 freeway interchanges rebuilt or improved
- 63 bridges replaced or restored
- Meets or exceeds travel demands through the year 2030
- Durable 40-year concrete pavement

**Utah Transportation Commission Meeting
Agenda Fact Sheet**

Meeting Date: February 10, 2012

Agenda Item: 7A-1

Subject: 2012 STIP Amendment #5

Transit Hub & Underpass at Lions Park Project – Scope & Funding
Adjustment

Background:

This item comes from Region Four. On January 17, 2012, the FTA announced discretionary grant projects, in which Grand County received \$2.5M for continuation of the Colorado River Pathway in Moab.

Scope of Grant: Grand County will use funds to continue construction of the Colorado Riverway Path, part of the North Moab Recreation Areas Alternative Transportation System that will link the City of Moab to Arches and Canyonlands National Parks, areas known for the most spectacular and surreal desert rock formations on earth.

Grant Sponsor: Grand County (Sponsored by Arches National Park and Bureau of Land Management Field Office).

This additional \$2.5M will be added to the existing Transit Hub & Under Pass at Lions Park Project – PIN 8266.

Exhibits: None

Commission Action Requested:

Approval to add an additional \$2.5 million to the Transit Hub & Under Pass at Lions Park Project, and modify the scope as detailed above

Prepared by: Robert Pelly
Presented by: Bill Lawrence

Reviewed By: Bill Lawrence
Date: 01/31/2012

**Utah Transportation Commission Meeting
Agenda Fact Sheet**

Meeting Date: February 10, 2012

Agenda Item: 7A-2

Subject: 2012 STIP Amendment #5

Dixie MPO; Transportation Improvement Program (TIP) - Program Amendments

Background:

The Dixie MPO requests approval of the following TIP Board Amendments:

- Move \$321,785 of STP_SU_MPO funding from the Old Highway 91; Swiss Village, Santa Clara to 200 East, Ivins Project – PIN 8575 to Bluff Street – Boulevard to Redhills Parkway including the Sunset Flyover - PIN 7757.
- Create two new projects for STIP funding in 2015 and 2016:

1. I-15; MP 8 Rehabilitation and Pedestrian Crossing - \$429,046 of STP_SU_DMPO funds in 2015.

The purpose of this project is to provide safe access for pedestrians and bicyclists from the west side to the east side of I-15. It is necessary because the city is bisected by I-15, with only three places to cross (St. George Blvd., 100 South, and 700 South). There are sidewalks provided on 100 South and 700 South, but not on St. George Blvd., putting pedestrians and bikers at risk.

This passageway will run on the north-side of St. George Blvd., from River Road to 1000 East.

2. Washington Fields Road Phase 4 - \$965,355 in 2015 and \$107,262 in 2016 of STP_FLX_DMPO and STP_SU_DMPO funds for a total project value of \$ 1,072,616.

This project will construct a new 33' two-lane road from 4000 South (Washington) to the Southern Parkway at Warner Valley Interchange.

Both Dixie MPO boards (DTAC and DTEC) approved these changes in December.

Exhibits: Project Map

Commission Action Requested:

Approval to make the funding adjustment on PIN 8575, and add the two new projects to the FY 2012 – 2017 STIP, as detailed above

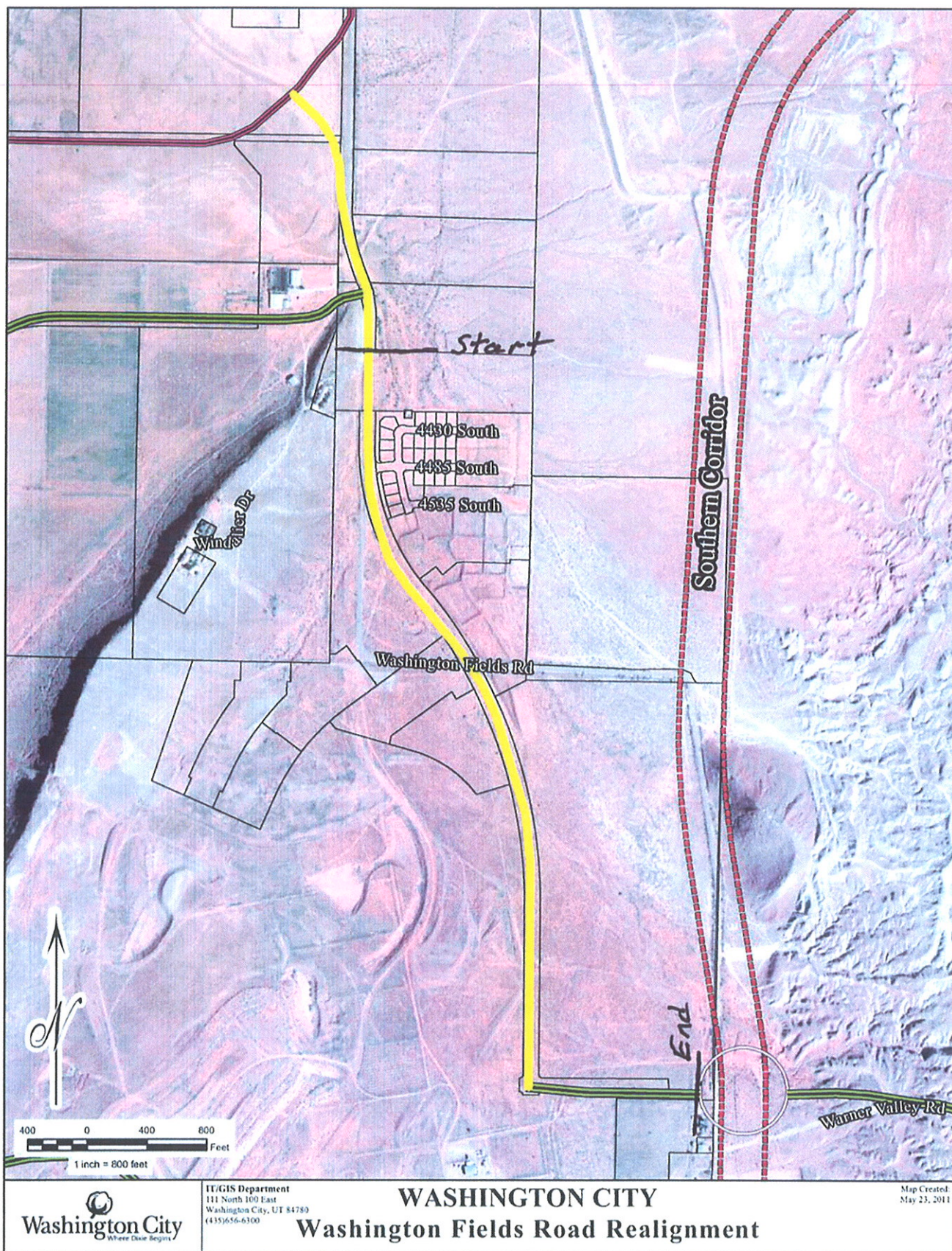
Prepared by: Robert Pelly
Presented by: Bill Lawrence

Reviewed By: Bill Lawrence
Date: 01/31/2012



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Google earth



**Utah Transportation Commission Meeting
Agenda Fact Sheet**

Meeting Date: February 10, 2012

Agenda Item: 7A-3

Subject: 2012 STIP Amendment #5

SR-154; Bangerter Highway at 600 West – New Project

Background:

Region Two requests approval to add a new project to the FY 2012 – 2017 STIP to start design for the Grade Separated Interchange and associated connecting roads at/about 600 West and Bangerter Highway.

This project is to be funded at \$400,000. These funds are available from funding remaining from the Bangerter Highway at 600 West Environmental document – PIN 8274.

Exhibits: Project Location Map

Commission Action Requested:

Approval to add the SR-154; Bangerter Highway at 600 West project to the FY 2012 – 2017 STIP, as detailed above

Prepared by: Robert Pelly

Presented by: Bill Lawrence

Reviewed By: Bill Lawrence

Date: 01/31/2012



**Utah Transportation Commission Meeting
Agenda Fact Sheet**

Meeting Date: February 10, 2012

Agenda Item: 7A-4

Subject: 2012 STIP Amendment #5

I-80; MP 128 to MP 197 Drainage Project – Funding Adjustment

Background:

Region Two requests approval to add an additional \$3.0 million to the I-80; MP 128 to MP 197 Drainage project (PIN 10087).

- This project is to fix an 8' diameter pipe that runs down Parley's Canyon under I-80 that is deteriorating quickly. This pipe carries Parley's Creek under I-80 for several miles.
- These pipe culverts were placed in 1960's, more than exceeding their 40 year lifespan. No work, other than regular maintenance, has taken place on these pipes since and they are in poor condition. Please see the attached pictures for pipe conditions. We have placed first priority on the 6-8 ft diameter two mile section between MP 129.0-131.0 and its tributaries. This section is unique in that there are restricted accesses within the two miles and because it serves as the only overflow for the Mountain Dell Dam, therefore restricting working times.
- The project was advertised and the bids came back more than double the project value. In an effort to mitigate risks and find better cost effective solutions, this project is now going to be delivered under a CMGS contracting method.
- This project is currently funded with \$2.5 million of IM funds. An additional \$3 million is needed in order to complete this project. The Region has \$3.8 million in the Region's de-obligation fund to cover this.

Exhibits: Project Map and Photos

Commission Action Requested:

Approval to add an additional \$3.0 million to I-80; MP 128 to MP 197 Drainage project, as detailed above

Prepared by: Robert Pelly
Presented by: Bill Lawrence

Reviewed By: Bill Lawrence
Date: 01/31/2012

2 PHASE VMS*

7 Days Prior
to Construction

RD Work Begins - DAY -	USE CAUTION
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During Construction

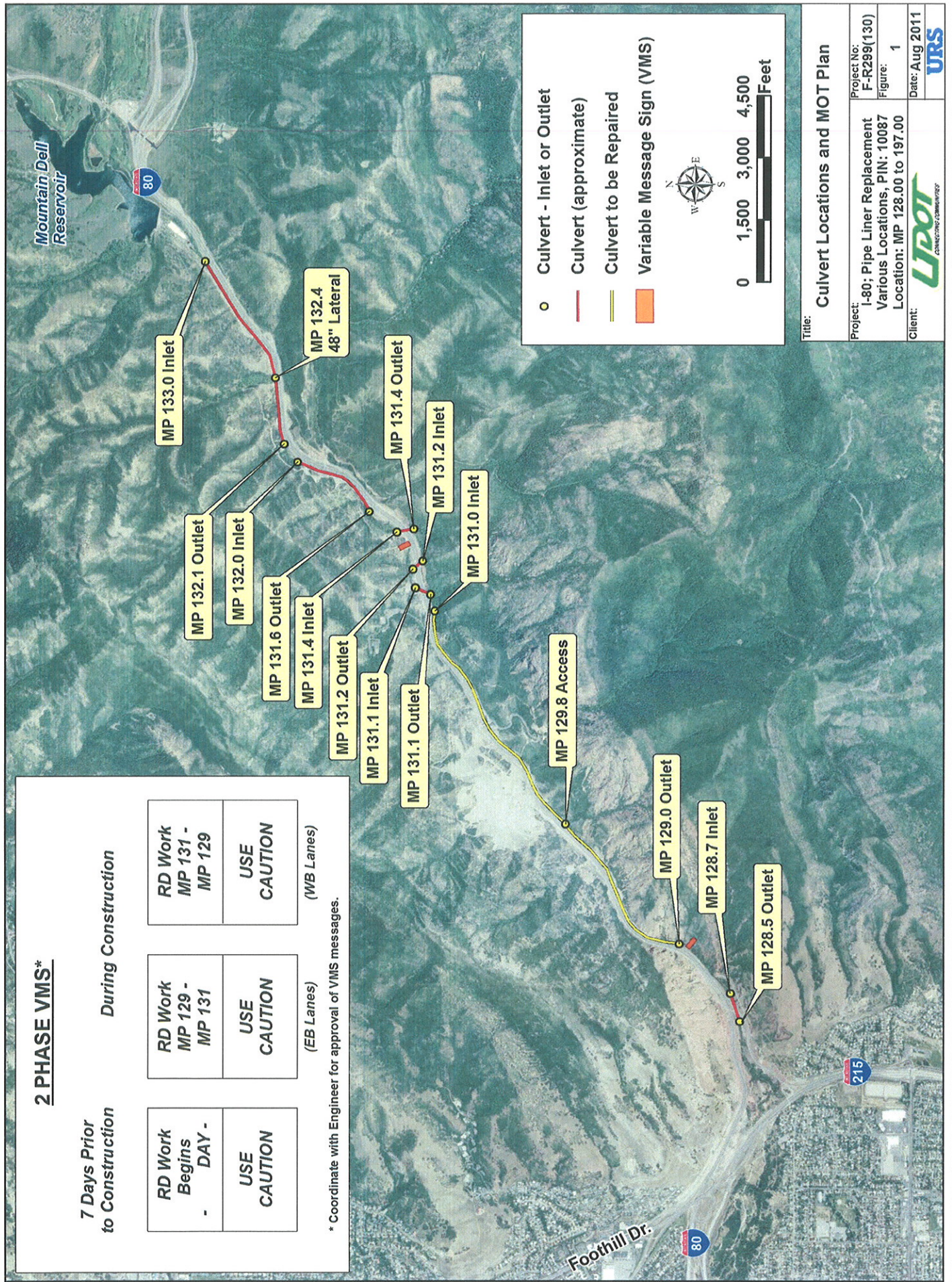
RD Work MP 129 - MP 131	USE CAUTION
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RD Work MP 131 - MP 129	USE CAUTION
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(EB Lanes)

(WB Lanes)

* Coordinate with Engineer for approval of VMS messages.



Title:

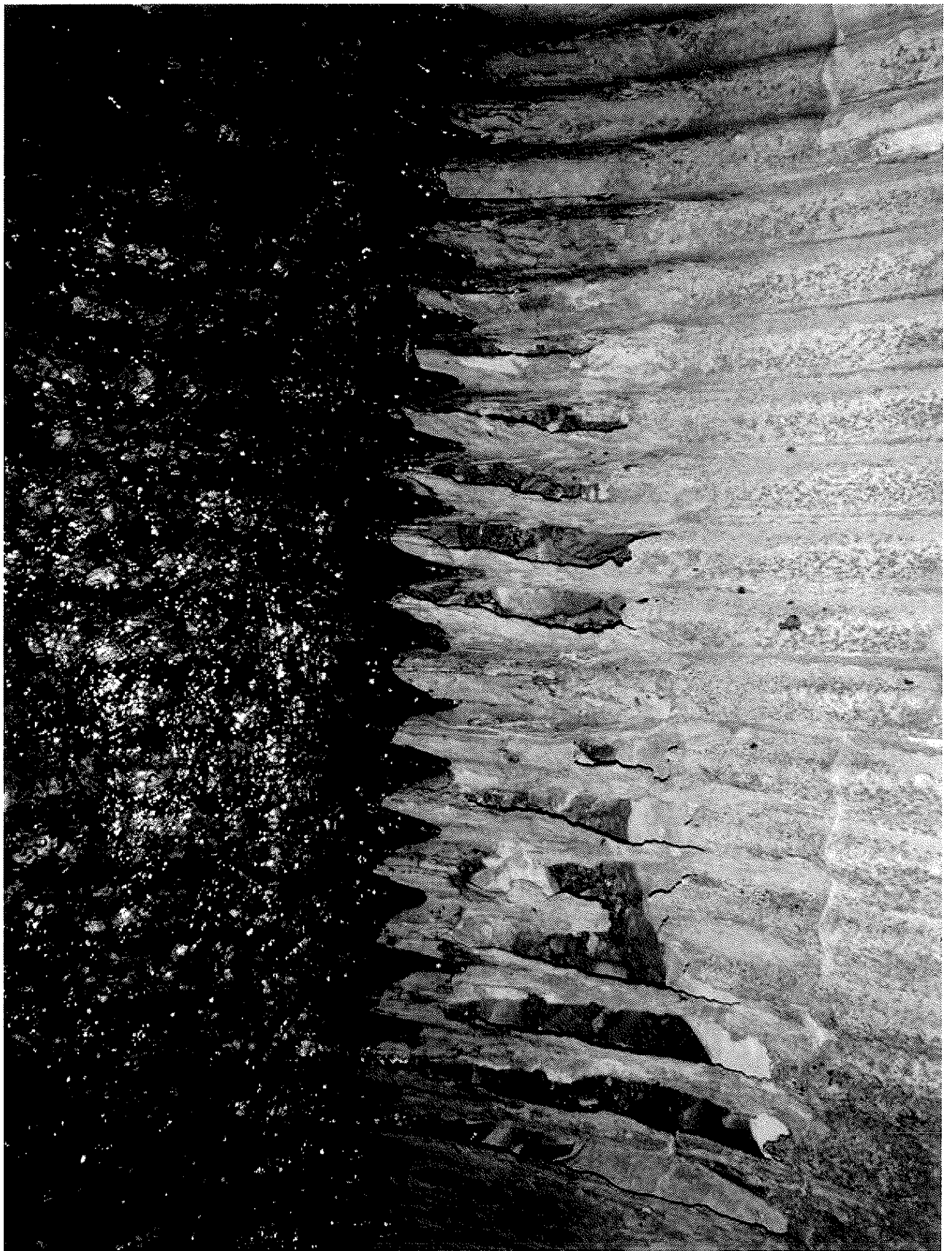
Culvert Locations and MOT Plan

Project: I-80; Pipe Liner Replacement
F-R299(130)
Various Locations, PIN: 10087
Location: MP 128.00 to 197.00

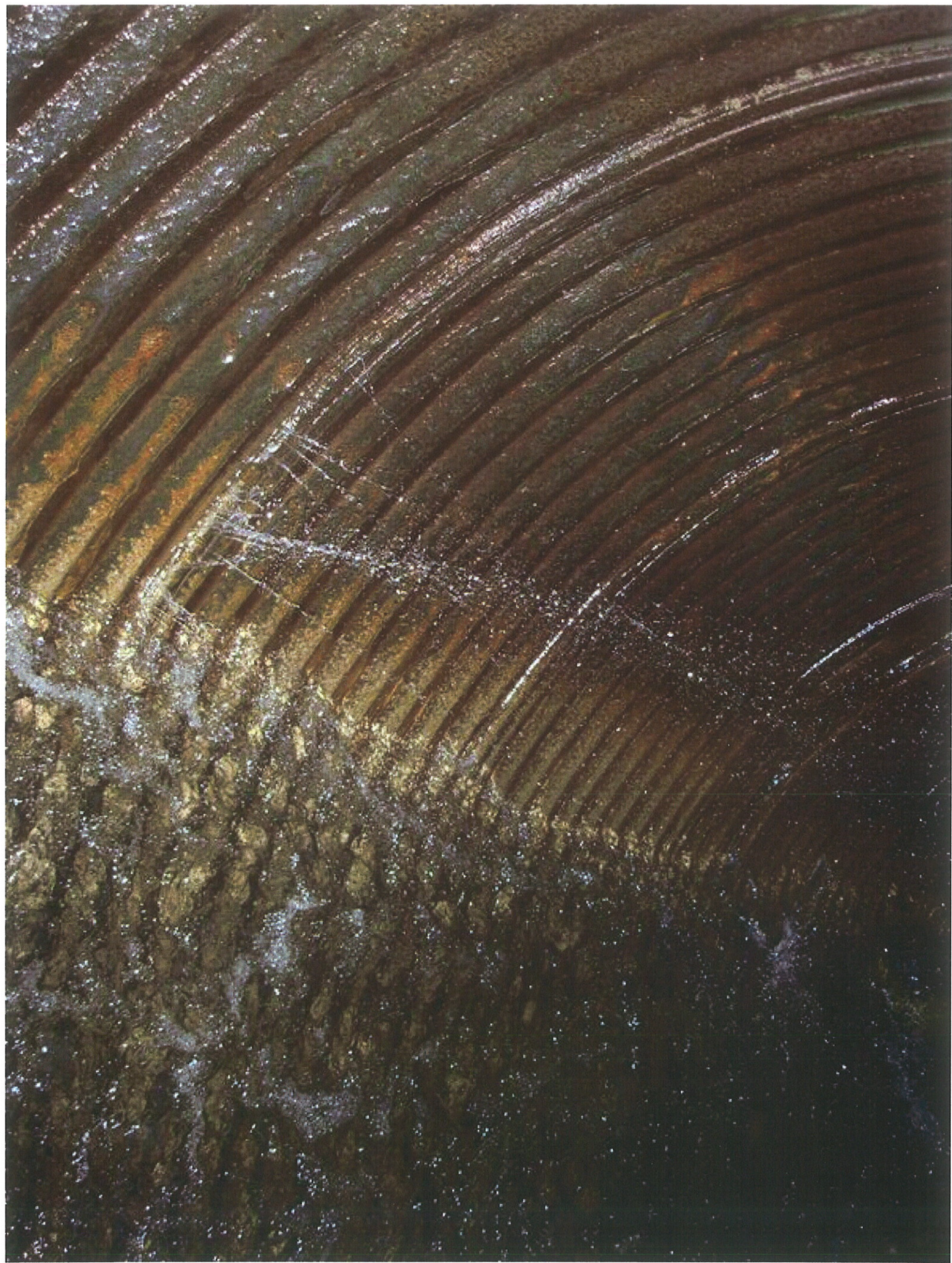
Client: LRPOT

Date: Aug 2011

URS









**Utah Transportation Commission Meeting
Agenda Fact Sheet**

Meeting Date: February 10, 2012

Agenda Item: 7A-5

Subject: 2012 STIP Amendment #5

SR-87; Pedestrian Bridge in Duchesne Project – PIN 10111 – Funding Adjustment

Background:

This Project began as a study using Region 3 Contingency funds to look into local concerns. Concerns included the number of large trucks and the safety for kids going to school, as well as site-distance issues for those coming out of the neighborhood to the north.

Three alternatives to mediate the concerns at this site were considered: install pedestrian structure, widen existing structure, or retrofit existing structure with cantilevered sidewalk. The most economical recommendation was the separate prefabricated pedestrian structure.

Originally the project was estimated to cost \$437,500.

Further investigation and preliminary construction estimates indicate a project value of \$650,000 to construct.

The project currently has \$437,500, and therefore an additional \$212,500 of STP_ENH_ST funding is required for design and construction.

The total STP_ENH_ST funds would be \$520,000, with a 20% State match of \$130,000. The UDOT Transportation Enhancement Program is supportive of this funding request.

Exhibits:

SR-87 Over the Duchesne River_Images.pdf
SR-87; Pedestrian Bridge Map.pdf

Commission Action Requested:

Approval to add \$212,500 of STP_ENH_ST to the SR-87; Pedestrian Bridge in Duchesne project - PIN 10111

Prepared by: Robert Pelly
Presented by: Bill Lawrence

Reviewed By: Bill Lawrence
Date: 01/30/2012



Roadway and sidewalk looking south.



Roadway looking north.



East elevation.



West elevation.



East side utility.



West side utilities.



Sight distance, looking south, as viewed by vehicles entering from 400 N. to Center St.



Google earth

Image State of Utah
© 2012 Google

Pedestrian Bridge
Location

Site Distance
Concerns

School

**Utah Transportation Commission Meeting
Agenda Fact Sheet**

Meeting Date: February 10, 2012

Agenda Item: 7A-6

Subject: 2012 STIP Amendment #5

US-40; Wasatch/Summit County Line to End of Concrete (EOC) Project –
PIN 9859 – Scope and Funding Adjustment

Background:

The Region is requesting to add \$1.2 M to this project, increasing the project value to \$7.3 M.

Region Three and Central Environmental worked together to develop a US-40 Corridor wildlife-vehicle collision reduction study. This corridor is one of the areas with the highest wildlife hits in the state. The features recommended to be included in this pavement project are recommendations from this study.

The majority of the additional funding requested would cover the extra costs involved with installing wildlife fencing, escape ramps, and electro mat for crossings. Given the high number of collisions on this section of US-40, it is considered to be a good investment.

The Region would like to fund the increase by using NHS funds from another project in the Region, PIN 6752, US-40; Daniels Summit to Soldier Creek, which finished construction substantially in the black.

Exhibits:

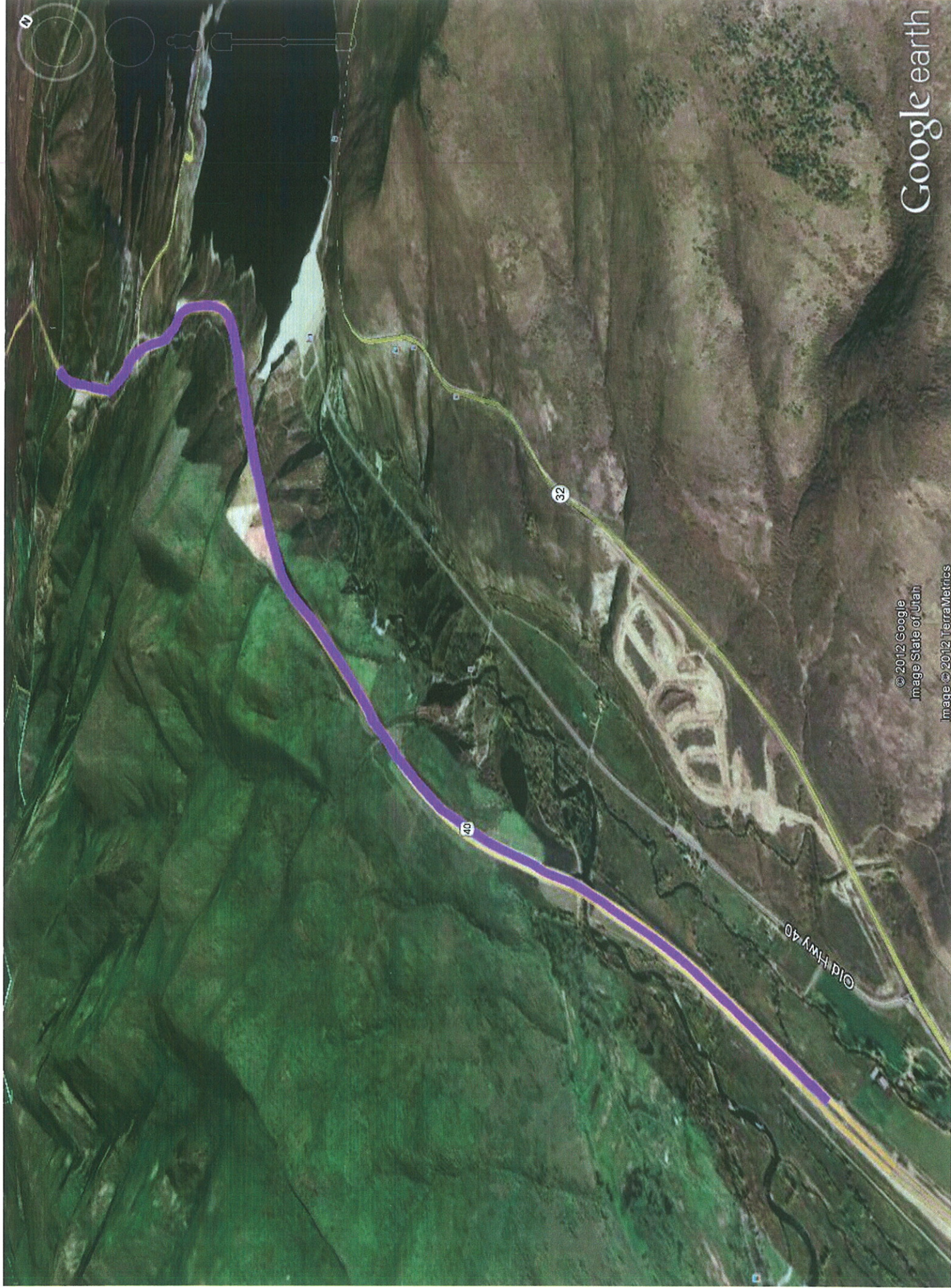
US-40; Wasatch~Summit County Line to EOC Project – Image.pdf
6-Year Graphs US-40 Roadkill Chart.pdf

Commission Action Requested:

Approval to add \$1.2 M of NHS funds to the US-40; Wasatch/Summit County Line to EOC Project – PIN 9859

Prepared by: Robert Pelly
Presented by: Bill Lawrence

Reviewed By: Bill Lawrence
Date: 01/30/2012



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Image State of Utah
Image © 2012 Terra Metrics

US-40;
Wasatch~Summit
County Line to
EOC, Project Limits

US 40 2005-2010 Cumulative Roadkill Deer and Elk Carcass Pickup

